

Sensorgrams obtained for each replicate of peptide 20 / PhdSTm52-71 (analyte) binding to DocSTm (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 50 nM to 0.206 nM (3-fold dilutions). The association and dissociation times were 80 s and 1200 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 20.

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| **Replicate** | **kon (M-1 s-1)** | **koff (s-1)** | **KD (pM)** | **RMAX (RU)** | **tC (RU M-1 s-1)** | **Chi2 (RU2)** | **U-value** |
| **1** | 9.247 ± 0.016 × 105 | 4.132 ± 0.006 × 10-4 | 447 | 22.0 ± 0.01 | 4.539 ± 8.000 × 1012 | 0.166 | 1 |
| **2** | 9.339 ± 0.014 × 105 | 3.870 ± 0.006 × 10-4 | 414 | 23.4 ± 0.01 | 5.672 ± 2.800 × 1011 | 0.165 | 1 |
| **3** | 8.910 ± 0.014 × 105 | 3.778 ± 0.006 × 10-4 | 424 | 24.5 ± 0.01 | 8.001 ± 11.000 × 1012 | 0.164 | 1 |